

ABSTRACT

The invention relates to a hydraulic device for the back and forth movement and locking of a machine part, in particular for the opening, closing and locking of an injection molding tool. The hydraulic device comprises a cylinder (1), in which a first pressure space (6) is provided, a primary piston (2) with one or several piston rods (11) which may float in a pressure medium within the first pressure space (6) and furthermore an secondary piston (7) which may be axially displaced within the cylinder (1). The invention is characterized in that the auxiliary piston (7) comprises recesses (12), into which the piston rods (11) of the primary piston (2) can be moved and the opposing sides of the primary piston (2) and secondary piston (7) have surfaces (40, 41) which may be brought into contact. In a first movement phase (opening and closing) only the primary piston (2) is moved. In a second phase, when the surfaces (40) and (41) are in contact, the primary piston (2) and the secondary piston (7) move as a unit (locking).